

0940310-071004

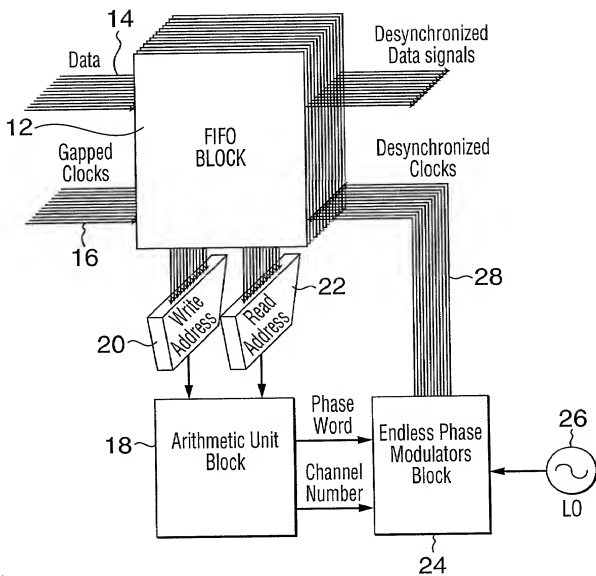


FIG. 1

Arithmetic Unit Block Diagram

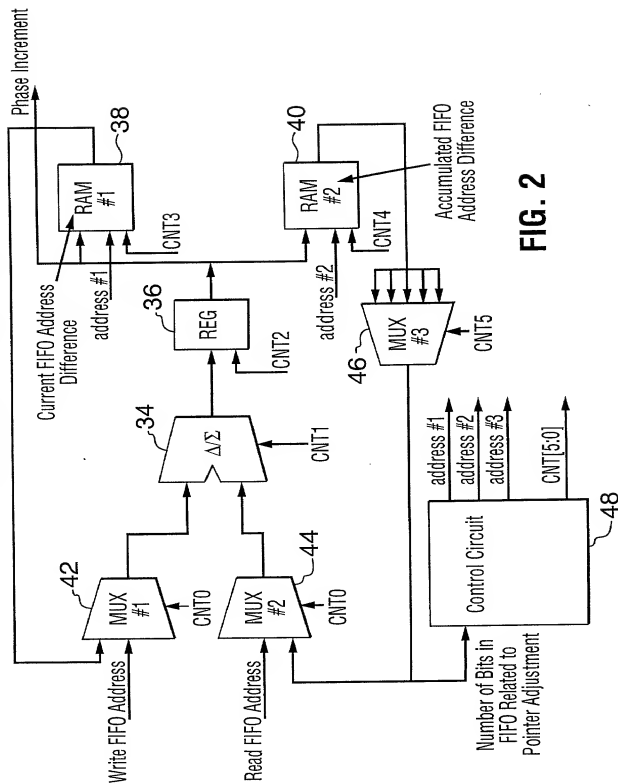


FIG. 2

Memory Map of RAM#1 for desynchronizing 12 channels of DS3 signal dropped from OC-12 signal

Ch#1 FIFO Address Difference
Ch#2 FIFO Address Difference
Ch#3 FIFO Address Difference
Ch#4 FIFO Address Difference
Ch#5 FIFO Address Difference
Ch#6 FIFO Address Difference
Ch#7 FIFO Address Difference
Ch#8 FIFO Address Difference
Ch#9 FIFO Address Difference
Ch#10 FIFO Address Difference
Ch#11 FIFO Address Difference
Ch#12 FIFO Address Difference
0
8
1/64 of UI Phase Increment
1/64

NOTE: N can be chosen for specific leak rate. Few more addresses can be added to the Ram#1 address space to enable adaptive bit leak rate!

Memory Map of RAM#2 for desynchronizing 12 channels of DS3 signal dropped from OC-12 signal

Ch#1 Accumulated FIFO Address Difference
Ch#2 Accumulated FIFO Address Difference
Ch#3 Accumulated FIFO Address Difference
Ch#4 Accumulated FIFO Address Difference
Ch#5 Accumulated FIFO Address Difference
Ch#6 Accumulated FIFO Address Difference
Ch#7 Accumulated FIFO Address Difference
Ch#8 Accumulated FIFO Address Difference
Ch#9 Accumulated FIFO Address Difference
Ch#10 Accumulated FIFO Address Difference
Ch#11 Accumulated FIFO Address Difference
Ch#12 Accumulated FIFO Address Difference
Ch#1 Pointer Adjustment Bits #
Ch#2 Pointer Adjustment Bits #
Ch#3 Pointer Adjustment Bits #
Ch#4 Pointer Adjustment Bits #
Ch#5 Pointer Adjustment Bits #
Ch#6 Pointer Adjustment Bits #
Ch#7 Pointer Adjustment Bits #
Ch#8 Pointer Adjustment Bits #
Ch#9 Pointer Adjustment Bits #
Ch#10 Pointer Adjustment Bits #
Ch#11 Pointer Adjustment Bits #
Ch#12 Pointer Adjustment Bits #
Spare Address for Holding Intermediate Values

FIG. 3

Arithmetic Unit Block Diagram

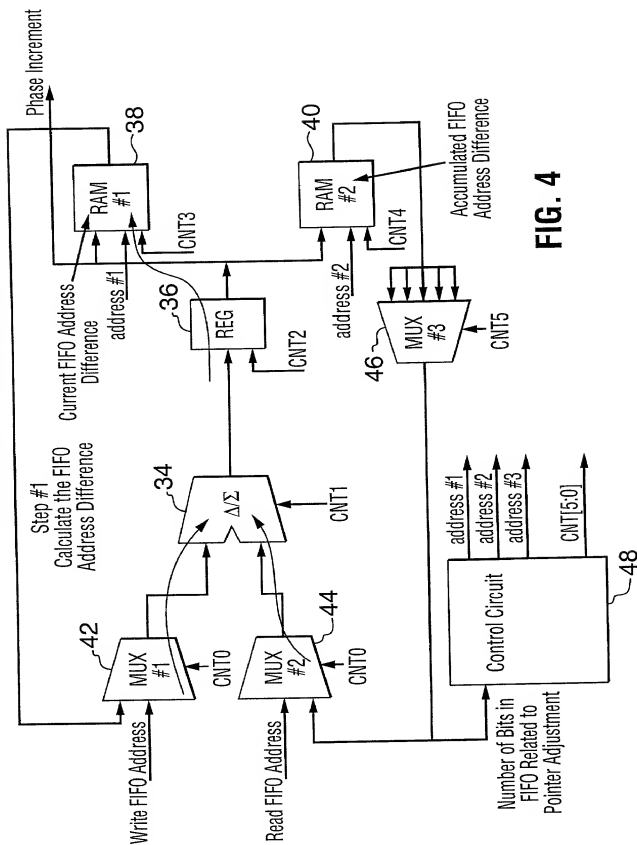


FIG. 4

Arithmetic Unit Block Diagram

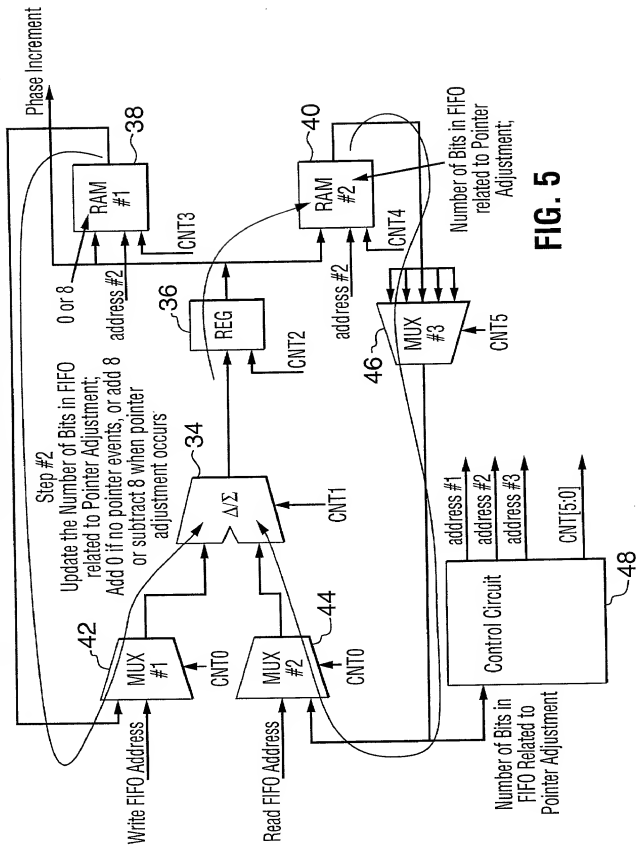


FIG. 5

Arithmetic Unit Block Diagram

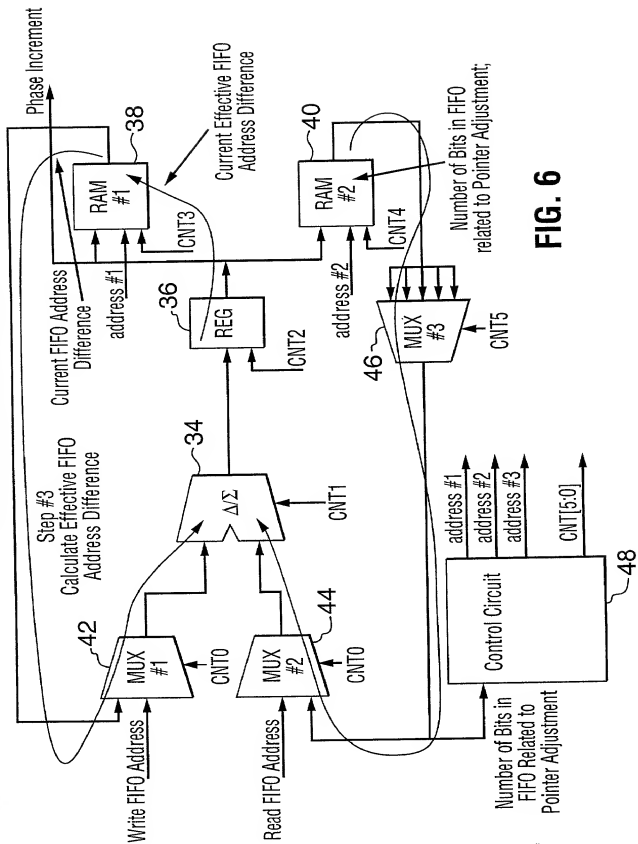


FIG. 6

Arithmetic Unit Block Diagram

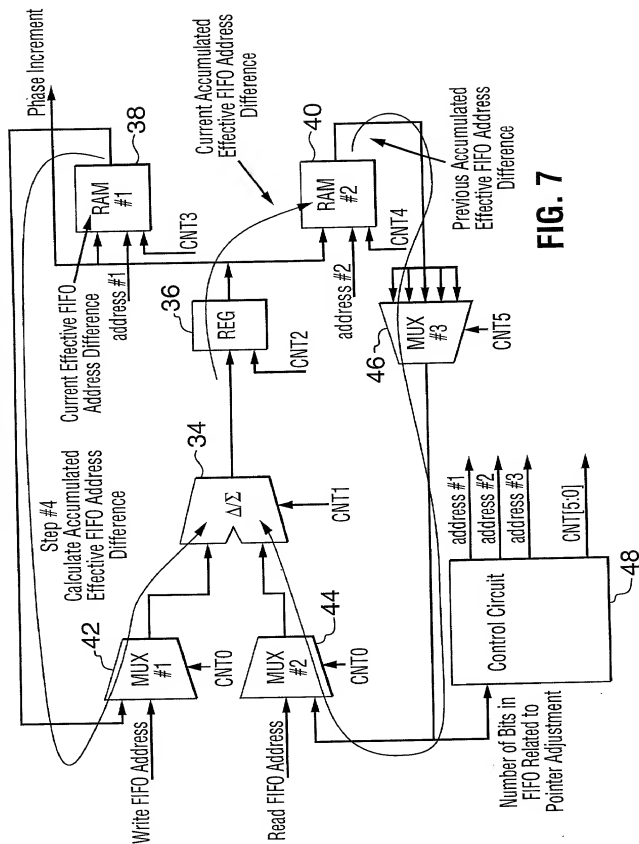


FIG. 7

Arithmetic Unit Block Diagram

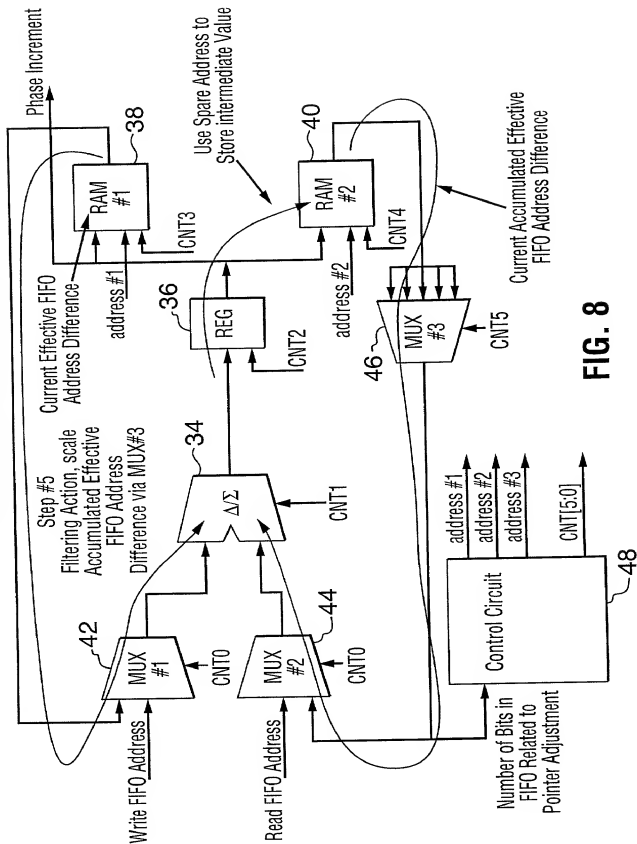


FIG. 8

Arithmetic Unit Block Diagram

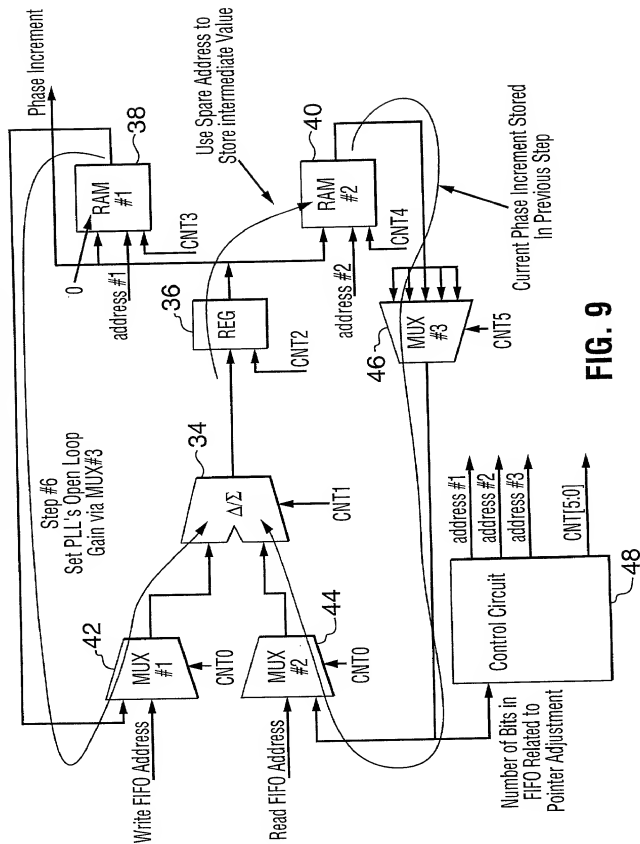


FIG. 9

Arithmetic Unit Block Diagram

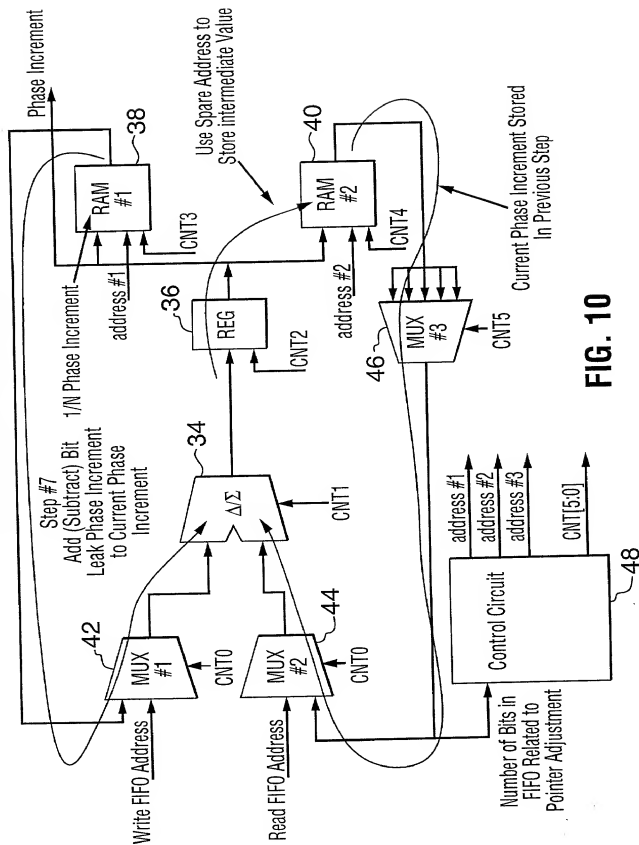


FIG. 10

Arithmetic Unit Block Diagram

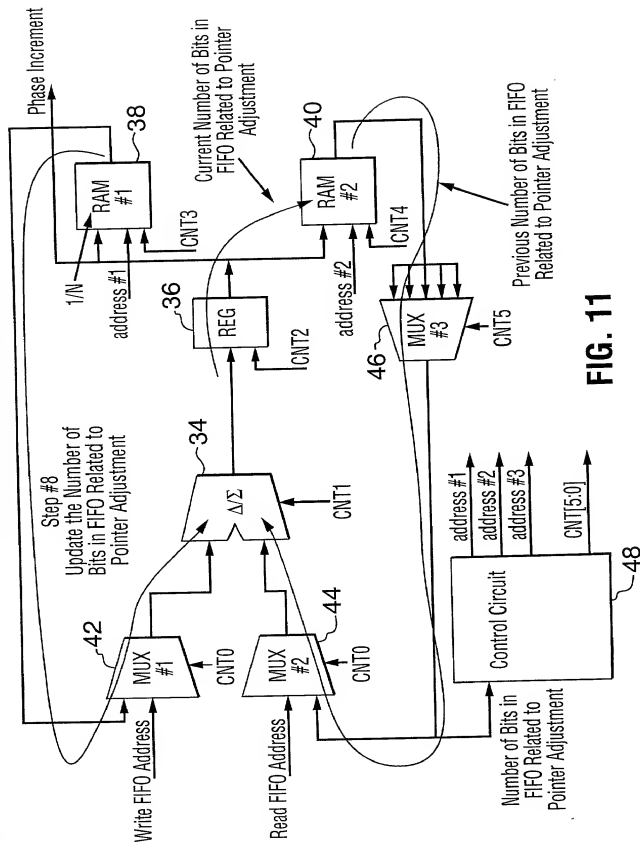


FIG. 11

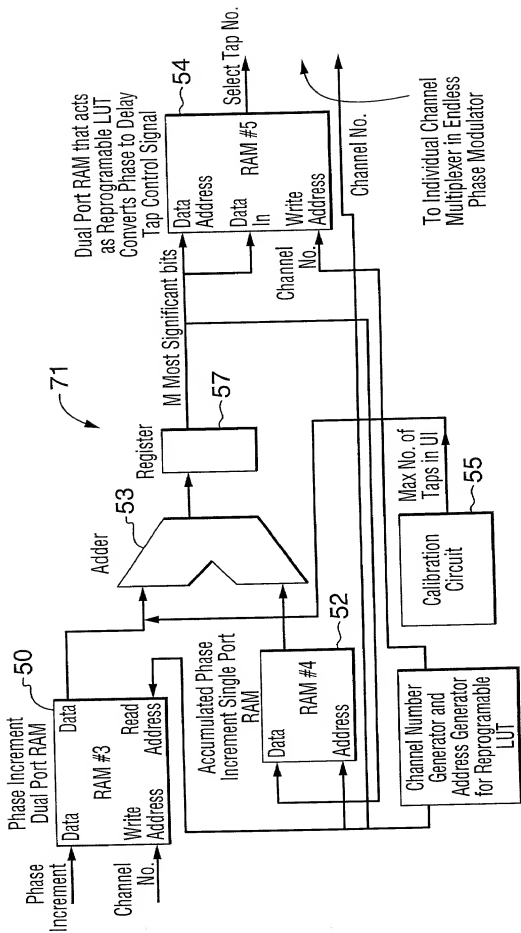
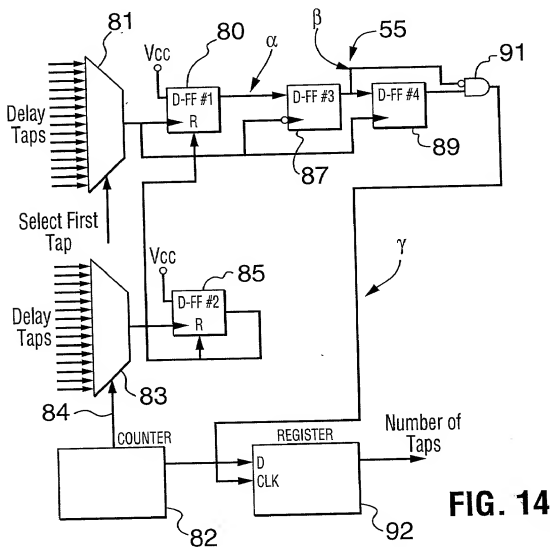
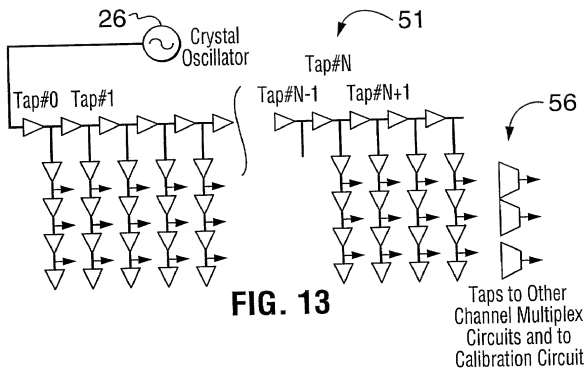
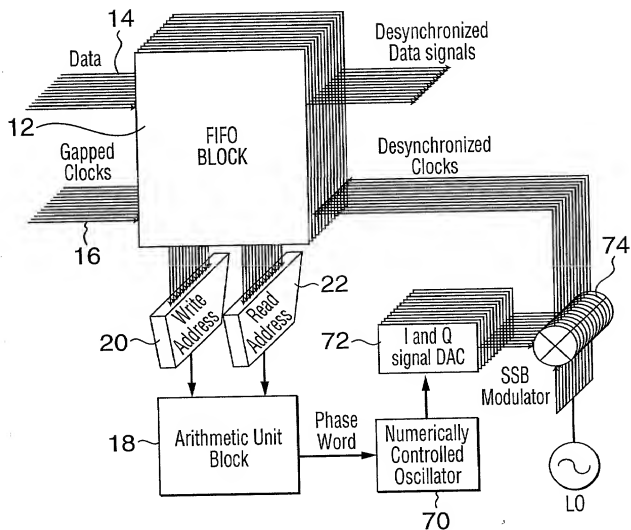


FIG. 12



**FIG. 15**

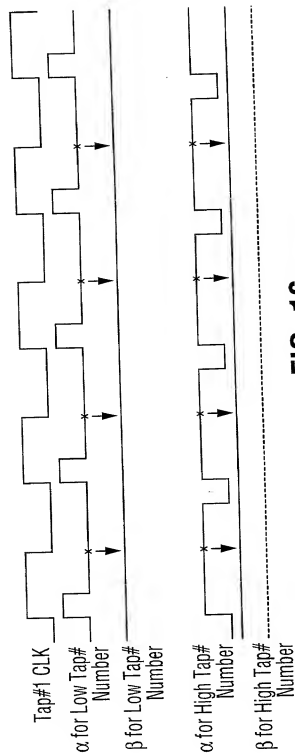
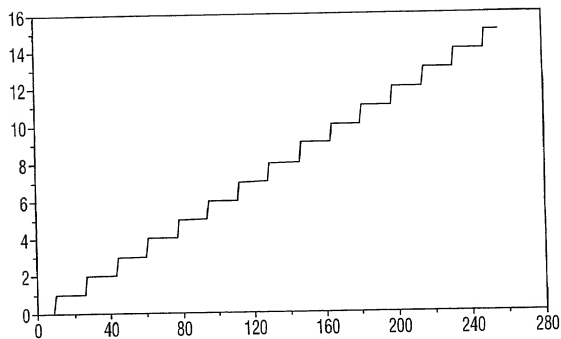
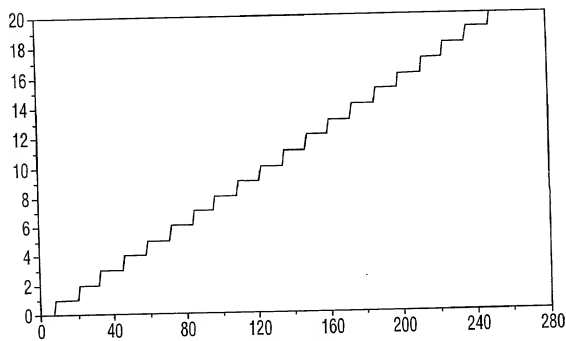


FIG. 16

**FIG. 17****FIG. 18**